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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit 1645

Application of Raul G. Barletta, et al.  
Serial No. 09/759,287  
Filed January 11, 2001  
Confirmation No. 9782  
For IDENTIFICATION OF VIRULENCE DETERMINANTS  
Examiner: R. Swartz

# 10/A  
Jm  
9/18/02

September 10, 2002

AMENDMENT A

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS  
WASHINGTON, D.C. 20231

SIR:

In response to the Office action dated April 17, 2002, please enter the following amendments:

IN THE SPECIFICATION:

Replace Table 1 on page 25 with:

TABLE 1

Mutation of *M. paratuberculosis* through Transposon Mutagenesis

Expt. <sup>1</sup>	OD <sub>600</sub> culture <sup>2</sup>	Ratio Ph/B <sup>3</sup>	Ads Time (hours) <sup>4</sup>	Transd. Freq. <sup>5</sup>	Transp Freq <sup>6</sup>	Kan <sup>r</sup> mutants <sup>7</sup>	N <sup>8</sup>	P value <sup>9</sup>
I	0.48	20	4	5.4x10 <sup>-8</sup>	1.0x10 <sup>-6</sup>	1344	1344	26%
II	0.48	200	4	5.1x10 <sup>-9</sup>	9.8x10 <sup>-7</sup>	1275	2619	42%
III	0.38	25	6	7.0x10 <sup>-9</sup>	1.8x10 <sup>-7</sup>	176	2795	46%
IV	0.38	25	24	5.4x10 <sup>-9</sup>	1.4x10 <sup>-7</sup>	136	2931	48%
V	0.75	350	4	1.1x10 <sup>-9</sup>	3.6x10 <sup>-5</sup>	2689	5620	71%